
















<b>INFORMATION DISCLOSURE CITATION</b> <i>(Use several sheets if necessary)</i>		Docket Number (Optional) <b>Army172</b>	Application Number <b>10/002,784</b>
*EXAMINER INITIAL		Applicant(s) <b>Ulrich et al.</b>	
		Filing Date <b>November 26, 2001</b>	Group Art Unit <b>1645</b>
OTHER DOCUMENTS <i>(Including Author, Title, Date, Pertinent Pages, Etc.)</i>			
	C	Johnson et al., "Real-Time Biospecific Interaction Analysis Using Surface Plasmon Resonance and a Sensor Chip Technology" Biotechniques, Vol. 11, No. 5, 1991, pages 620-627.	
	D	Prasad et al., "Structure of Toxic Shock Syndrome Toxin 1", Biochemistry, Accelerated Publications, Vol. 32, No. 50, 1993, pages 13761-13766.	
	E	Acharya, et al., "Structural basis of superantigen action inferred from crystal structure of toxic-shock syndrome toxin-1", Nature, Vol. 367, Jan. 6, 1994, pages 94-97.	
	F	Swaminathan et al., "Crystal structure of staphylococcal enterotoxin B, a superantigen", Nature, Vol. 359, October 29, 1992, pages 801-806.	
	G	Ulrich et al., "Staphylococcal enterotoxins A and B share a common structural motif for binding class II major histocompatibility complex molecules", Nature Structural Biology, Vol. 2, No. 6, June 1995, pages 554-560.	
	H	Kuo et al., "Role of Streptococcal Pyrogenic Exotoxin B in the Mouse Model of Group A Streptococcal Infection", Infection and Immunity, Aug. 1998, Vol. 66, No. 8, pages 3931-3935.	
	I	Kapur et al., "A conserved Streptococcus pyogenes extracellular cysteine protease cleaves human fibronectin and degrades vitronectin", Microbial Pathogenesis, 1993, Vol. 15, pages 327-346.	
	J	Kapur et al., "Cleavage of interleukin 1B (IL-1B) precursor to produce active IL-1B by a conserved extracellular cysteine protease from Streptococcus pyogenes", Proc. Natl. Acad. Sci, USA, Vol 90, August 1993, pages 7676-7680.	
	K	Kagawa et al., "Crystal structure of the zymogen form of the group A Streptococcus virulence factor SpeB: And integrin-binding cysteine protease", PNAS, Feb. 29, 2000, Vol. 97, No. 5, pages 2235-2240.	
	L	Gubba et al., "Replacement of Histidine 340 with Alanine Inactivates the Group A Streptococcus Extracellular Cysteine Protease Virulence Factor", Infection and Immunity, June 2000, Vol. 68, No. 6, pages 3716-3719.	
	M	Stiles et al., "Toxicity of Staphylococcal Enterotoxins Potentiated by Lipopolysaccharide: Major Histocompatibility Complex Class II Molecule Dependency and Cytokine Release", Infection and Immunity, Dec. 1993, Vol. 61, No. 12, pages 5333-5338.	
	N	Baker et al., "Structural features of a zinc binding site in the superantigen streptococcal pyrogenic exotoxin A (SpeA1): Implications for MHC class II recognition," Protein Science, 2001, Vol. 10, pages 1268-1273.	
EXAMINER 		DATE CONSIDERED <b>9-26-05</b>	
*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.			

<b>INFORMATION DISCLOSURE CITATION</b> <i>(Use several sheets if necessary)</i>		Docket Number (Optional) <b>Army172</b>	Application Number <b>10/002,784</b>
		Applicant(s) <b>Ulrich et al.</b>	
Filing Date <b>November 26, 2001</b>		Group Art Unit <b>1645</b>	

*EXAMINER INITIAL	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
<i>M</i>	O Rosemani, et al., "Analysis of Toxicity of Streptococcal Pyrogenic Exotoxin A Mutants", Infection and Immunity, July 1997, Vol. 65, No. 7, pages 2868-2875.
<i>M</i>	P Kline et al., "Analysis of the Superantigenic Activity of Mutant and Allelic Forms of Streptococcal Pyrogenic Exotoxin A", Infection and Immunity, Vol. 64, No. 3, March 1996, pages 861-869.
<i>M</i>	Q Schlievert, "Role of Superantigens in Human Disease", J. of Infectious Diseases, 1993, Vol. 163, pages 997-1002.
<i>M</i>	R Schlievert et al., "Identification and Characterization of an Exotoxin from Staphylococcus aureus associated with Toxic-Shock Syndrome", J. Infectious Diseases, Vol 143, No. 4, April 1981.
<i>M</i>	S Schwab et al., "Superantigen Can Reactivate Bacterial Cell Wall-Induced Arthritis", J. Immunology, Vol. 150, No. 9, May 1, 1993, pages 4151-4159.
<i>M</i>	T Karlsson et al., "Kinetic analysis of monoclonal antibody-antigen interactions with a new biosensor based analytical system", J. Immunological Methods, Vol. 145 (1991), pages 239-240.
<i>M</i>	U Nabozny et al., "HLA-DQ8 Transgenic Mice Are Highly Susceptible To Collagen-induced Arthritis: A Novel Model For Human Polyarthritis", J. Exp. Med, Vol. 183, Jan. 1996, pages 27-37.
<i>M</i>	V Hudson et al., "Two Adjacent Residues in Staphylococcal Enterotoxins A and E Determine T Cell Receptor VB Specificity", J. Exp. Med., Vol. 177, Jan. 1993, pages 175-184.
<i>M</i>	W Panina-Bordignon et al., "Identification of HLA-DRalpha Chain Residues Critical for Binding of the Toxic Shock Syndrome Toxin Superantigen", J. Exp. Med., Vol. 176, Dec. 1992, pages 1779-1784.
<i>M</i>	X Yakei, et al., "Intravenous Immunoglobulin Contains Specific Antibodies Inhibitory to Activation of T Cells by Staphylococcal Toxin Superantigens", J. Clin. Invest., vol. 91, Feb. 1993, pages 602-607. Takei
<i>M</i>	Y Sundstrom, et al., "The Co-crystal Structure of Staphylococcal Enterotoxin Type A With Zn <sup>2+</sup> at 2.7 A Resolution", J. Biological Chemistry, vol 271, No. 50, Dec. 13, 1996, pages 32212-32216.
<i>M</i>	Z Gubba et al., "Replacement of Histidine 340 with Alanine Inactivates the Group A Streptococcus Extracellular Cysteine Protease Virulence Factor", Infection and Immunity, Vol. 68, No. 6, June 2000, pages 3716-3719.

EXAMINER <i>MM Manfield</i>	DATE CONSIDERED <i>9-26-05</i>
--------------------------------	-----------------------------------

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<b>INFORMATION DISCLOSURE CITATION</b> (Use several sheets if necessary)		Docket Number (Optional) <b>Army172</b>	Application Number <b>10/002,784</b>
		Applicant(s) <b>Ulrich</b>	
Filing Date <b>November 26, 2001</b>		Group Art Unit <b>1645</b>	
*EXAMINER INITIAL: <b>MM</b> OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
<b>MM</b>	AA	Gaddy et al., "A Globally Disseminated M1 Subclone of Group A Streptococci Differs from Other Subclones by 70 Kilobases of Phage DNA and Capacity for High-Frequency Intracellular Invasion," Infection and Immunity, Vol. 66, No. 11, Nov. 1998, pages 5592-5597.	
<b>MM</b>	BB	Kuo et al., "Role of Streptococcal Pyrogenic Exotoxin B in the Mouse of Group A Streptococcal Infection", Infection and Immunity, Vol. 66, No. 8, Aug. 1998, pages 3931-3935.	
<b>MM</b>	CC	Harokopakis et al., "Mucosal Immunogenicity for a Recombinant Salmonella typhimurium-cloned Heterologous Antigen in the Absence of Presence of Coexpressed Cholera Toxin A2 and B Subunits", Infection and Immunity, April 1997, Vol. 65, No. 4, pages 1445-1454.	
<b>MM</b>	DD	Bavari and Ulrich, "Staphylococcal Enterotoxin A and Toxic Shock Syndrome Toxin Compete with CD4 for Human Major Histocompatibility Complex Class II Binding", Infection and Immunity, Feb. 1995, Vol. 63, No. 2, pages 423-429.	
<b>MM</b>	EE	Stiles, et al., "Toxicity of Staphylococcal Enterotoxins Potentiated by Lipopolysaccharide: Major Histocompatibility Complex Class II Molecule Dependency and Cytokine Release", Infection and Immunity, Dec. 1993, Vol. 61, No. 12, pages 5333-5338.	
<b>MM</b>	FF	Taneja and David, "HLS class II transgenic mice as models of human diseases", Immunological Reviews 1999, Vol. 169, pages 67-79.	
<b>MM</b>	GG	Takimoto et al., "Stimulation of all T cells bearing VB1, VB3, VB11 and Vb12 by staphylococcal enterotoxin A", Eur. J. Immunol., 1990, Vol. 20, pages 617-621.	
<b>MM</b>	HH	Sundstrom et al., "The crystal structure of staphylococcal enterotoxin type D reveals Zn2+-mediated homodimerization", The EMBO Journal, Vol. 15, No. 24, pages 6832-6840, 1996.	
<b>MM</b>	II	Bavari et al., "Divergence of Humand and Nonhumand Primate Lymphocyte Responses to Bacterial Superantigens", Clinical Immunology and Immunopathology, Vol. 76, No. 3, Sept. 1995, pages 248-254.	
<b>MM</b>	JJ	Carlsson and Sjogren, "Kinetics of IL-2 and Interferon-γ Production, Expression of IL-2 Receptors, and Cell Proliferation in Human Mononuclear Cells Exposed to Staphylococcal Enterotoxin A", Cellular Immunology, 96, pages 175-183 (1985).	
<b>MM</b>	KK	White et al., "The VB-Specific Superantigen Staphylococcal Enterotoxin B: Stimulation of Mature T Cells and Clonal Deletion in Neonatal Mice", Cell, Vol. 56, Jan. 13, 1989, pages 27-35.	
<b>MM</b>	LL	Jackson et al., "Real-Time, Heterospecific Interaction Analysis Using Surface Plasmon Resonance and a Sensor Chip Technology", Bio Techniques Biofeature, Vol. 11, No. 5, 1991, pages 628-627.	
EXAMINER <b>MM</b>		DATE CONSIDERED <b>9-26-05</b>	
*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.			

INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)		Docket Number (Optional) Army172	Application Number 10/002,784
		Applicant(s) Ulrich	
		Filing Date November 26, 2001	Group Art Unit 1645
*EXAMINER INITIAL	OTHER DOCUMENTS (Including Abstracts, Title, Date, Pertinent Pages, Etc.)		
MM	Prasad et al., "Structure of Toxic Shock Syndrome Toxin 1", Biochemistry, Accelerated Publications, Vol. 32, No. 50, Dec. 21, 1993, pages 1374-1376.		
NN	Herman et al., "Superantigens: Mechanism of T-Cell Stimulation of Role in Immune Responses", Annu. Rev. Immunol., 1991, Vol. 9, pages 745-772.		
OO	Kreiswirth et al., "Cloning and expression of streptococcal pyrogenic exotoxin A and staphylococcal toxic shock syndrome toxin-1 in Bacillus subtilis", Mol. Gen. Genit. (1987), Vol. 208, pages 84-87.		
PP	Bohach et al., "Staphylococcal and Streptococcal Pyrogenic Toxins Involved in Toxic Shock Syndrome and Related Illnesses", Microbiology, 1990, Vol. 17, Issue 4, pages 251-272.		
QQ	Bergdoll, "Enterotoxins", Staphylococci and Staphylococcal Infections, 2, chapter 16, pages 559-598, (1983).		
RR	Anderson et al., "Delivery of the Pertactin/P.69 polypeptide of Bordetella pertussis using an attenuated Salmonella typhimurium vaccine strain: expression levels and immune response", Vaccine, 1996, Vol. 14, No. 14, pages 1384-1390.		
SS	Ulrich et al., "Bacterial superantigens in human disease: structure, function and diversity," Trends in Microbiology, Vol 3, No. 12, Dec. 1995, pages 463-468.		
TT	Posnett, "Do superantigens play a role in autoimmunity?", seminars in Immunology, Vol. 5, 1993, pages 65-72.		
UU	Kim et al., "Toxic Shock Syndrome Toxin-1 Complexed with a Class II Major Histocompatibility molecule HLA-DR1", Science, Nov. 266, Dec. 16, 1994, pages 1870-1874.		
VV	Marrack and Kappler, "The Staphylococcal Enterotoxins and Their Relatives", Sciences, Vol. 248, Articles, May 11, 1990, pages 705-711.		
WW	Mollick et al., "Class II MHC Molecules Are Specific Receptors for Staphylococcus Enterotoxin A", Science, Vol 244, Reports, May 19, 1989, pages 817-820.		
XX	Kappler et al., "VB-Specific Stimulation of Human T Cells by Staphylococcal Toxins", Science, Vol. 244, Reports, May 19, 1989, pages 811-813.		
EXAMINER N M Wainfield		DATE CONSIDERED 9-26-05	

\* EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<b>INFORMATION DISCLOSURE CITATION</b> (Use several sheets if necessary)		Docket Number (Optional) <b>Army172</b>	Application Number <b>10/002,784</b>
		Applicant(s) <b>Ulrich</b>	
		Filing Date <b>November 26, 2001</b>	Group Art Unit <b>1645</b>

*EXAMINER INITIAL	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
M YY	Kapane et al., "Crystal structure of the zymogen form of the group A Streptococcus virulence factor SpA: An integrin-binding cysteine protease", PNAS, Vol. 97, No. 5, Feb. 29, 2000, pages 2235-2240. <b>DUPLICATE</b>
M ZZ	Medaglini et al., "Mucosal and systemic immune responses to a recombinant protein expressed on the surface of the oral commensal bacterium Streptococcus gordonii after oral colonization", PNAS, USA, Vol. 91, July 1995, pages 6868-6872.
M AAA	Kapur, et al., "Cleavage of interleukin 1B (IL-1B) precursor to produce active IL-1B by a conserved extracellular cysteine protease from Streptococcus pyogenes", PNAS, Sci, USA, Vol. 91, Aug. 1995, pages 7676-7680. <b>DUPLICATE</b>
M BBB	Fraser et al., "Zinc regulates the function of two superantigens", PNAS, Sci, USA, Vol 89, June 1992, pages 5507-5511.
M CCC	Choi et al., "Interaction of Staphylococcus aureus toxin 'superantigens' with human T cells", PNAS Sci. USA, Vol. 86, Nov. 1989, pages 8941-8945.
M DDD	Goldenberg and Reed, "Bacterial Arthritis", The New England Journal of Medicine, Vol. 312, No. 12, March 21, 1985, pages 764-771.
M EEE	Ulrich et al., "Staphylococcal enterotoxins A and B share a common structural motif for binding class II major histocompatibility complex molecules", Nature Structural Biology, Vol. 2, No. 6, June 1995, pages 554-560. <b>DUPLICATE</b>
M FFF	Jardetzky et al., "Three-dimensional structure of a human class II histocompatibility molecule complexed with superantigen", Nature, Vol. 368, April 21, 1994, pages 711-718.
M GGG	Acharya et al., "Structural basis of superantigen action inferred from crystal structure of toxic-shock syndrome toxin-1", Nature, Vol 367, Jan. 6, 1994, pages 94-97.
M HHH	Swaminathan et al., "Crystal structure of staphylococcal enterotoxin B, a superantigen", Nature, Vol. 359, Oct. 29, 1992, pages 801-806. <b>DUPLICATE</b>
M III	Kawabe and Ochi, "Programmed cell death and extrathymic reduction of VB8+ CD4+ T cells in mice tolerant to Staphylococcus aureus enterotoxin B", Nature, Vol. 349, Jan 17, 1991, pages 245-248.
M JJJ	Fraser, "High-affinity binding of staphylococcal enterotoxins A and B to HLA-DR", Nature, Vol. 339, May 18, 1989, pages 221-223.

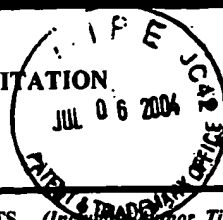
  

EXAMINER <i>NM Manningfield</i>	DATE CONSIDERED <i>9-26-05</i>
------------------------------------	-----------------------------------

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

# INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)



Docket Number (Optional)

Army172

Application Number

10/002,784

Applicant(s)

Ulrich

Filing Date

November 26, 2001

Group Art Unit

1645

\*EXAMINER  
INITIAL

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

KKK

Kopur et al., "A conserved *Streptococcus pyogenes* extracellular cysteine protease cleaves human fibronectin and degrades vitronectin", *Microbial Pathogenesis*, Vol. 15, 1993, pages 27-346.

LLL

Schievert, "Staphylococcal enterotoxin B and toxic-shock syndrome toxin-1 are significantly associated with non-menstrual TSS", *The Lancet*, May 17, 1986, pages 1149-1150.

EXAMINER

N M Minnifield

DATE CONSIDERED

9-26-05

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.